

# Software Mutation for Information Survivability



A single attack can quickly destroy many information systems

## Impact:

- Diversification can make the country's information infrastructure more robust.
- We are learning what it takes to prevent rapid destruction of information systems.
- Our software rewrite system may make it easier to fix known security loopholes.

## New Ideas

- Diversity can help prevent a single attack from quickly destroying a large number of information systems
- Diversity alone may not be enough; additional technology is needed
- A software rewrite system can accomplish automatic diversification, among other things.

## SCHEDULE



- 1: Analytic Model for Mutation and Survivability
- 2: Experiments with Diversified Software
- 3: Prototype System